TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-02-17-01** **Date: 18-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of 1st Floor at Anganavadi Centre, Thindlu in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/236/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-02-17
Sample ID No	:	2017-02-17-01-01
Sample Type	:	Ultratech 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-02-2017 to 17-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m^2/kg, Min)	298.5	225m^2/kg, Min
3	Density (gm/cc)	3.23	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	255 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-17-01** **Date: 18-03-2017**

Sample ID No : **2017-02-17-01-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	345 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
	7 Days	37.5N/mm^2	Not less than 37 N/mm^2
	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Sooltha AE

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-17-02** **Date: 24-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of 1st Floor at Anganavadi Centre, Thindlu in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/236/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	17-03-17
Sample ID No	:	2017-03-17-02-01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	17-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	145	145	2.9	97.1	95-100
3	20 mm	1989	2134	42.68	57.3	30-70
4	10 mm	1716	3850	77	23.0	10-35
5	4.75 mm	980	4830	96.6	3.4	0-5
6	Pan	170	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-17-02** **Date: 24-03-2017**

Sample ID No : 2017-03-17-02-01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**11.3**	_
2	Elongation Index(%)	**12.9**	_
3	Specific Gravity	**2.65**	_
4	Bulk Density(Loose) (Kg/l)	**1.51**	_
5	Bulk Density(Compacted) (Kg/l)	**1.56**	_
6	Water Absorption(%)	**0.20**	_

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Prepared by
Harshitha

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Jadha
AE

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-17-02** **Date: 24-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of 1st Floor at Anganavadi Centre, Thindlu in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer Reference	:	BBMP/EE/BTP/WO/236/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-17
Sample ID No	:	2017-03-17-02-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	17-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	166	166	3.3	96.7	95-100
3	10 mm	2350	2516	50.3	49.7	25-55
4	4.75 mm	2387	4903	98.1	1.9	0-5
5	Pan	97	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-17-02** **Date: 24-03-2017**

Sample ID No : 2017-03-17-02-01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	11.4	_
2	Elongation Index(%)	10.8	_
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.2	_
7	Ten percent fine value(KN)	202	_
8	Aggregate crushing Value(%)	23.8	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	22.4	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Prepared by
Harshitha

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-03-17-02** **Date: 27-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of 1st Floor at Anganavadi Centre, Thindlu in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/236/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-17
Sample ID No	:	2017-03-17-02-03
Sample Type/Size	:	Solid concrete blocks of size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	19-03-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	152	200	12190	24.320	1995.0	1985.4	Not less than 1800Kg/m^3
2	401	150	203	12210	24.390	1997.5		
3	403	152	201	12312	24.180	1963.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.124	24.370	3.09	3.32	Shall not be more than 10% by mass
2	25.345	24.490	3.49		
3	25.789	24.950	3.36		

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Lab ID : **CP-2017-03-17-02** **Date: 27-03-17**

Sample ID No : **2017-03-17-02-03**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	150	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	151	202	
3	400	152	203	
4	400	152	201	
5	401	153	201	
6	401	154	200	
7	402	154	201	
8	403	152	202	
9	403	151	201	
10	403	151	203	
11	402	153	201	
12	401	152	202	
13	400	150	202	
14	401	152	203	
15	401	151	202	
16	400	151	201	
17	402	150	200	
18	402	152	204	
19	403	152	203	
20	401	153	202	
Average of 20 blocks	**401**	**152**	**202**	

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Lab ID : **CP-2017-03-17-02** **Date: 27-03-17**

Sample ID No : 2017-03-17-02-03

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	150	60150	284.2	4.7	4.3
2	402	151	60702	252.4	4.2	
3	400	152	60800	272.1	4.5	
4	400	152	60800	234.4	3.9	
5	401	153	61353	219.3	3.6	
6	401	154	61754	280.1	4.5	
7	402	154	61908	283.4	4.6	
8	403	152	61256	277.1	4.5	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Harshitha

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Quality Manager

Jadhav
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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-03-17-02** **Date: 24-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of 1st Floor at Anganavadi Centre, Thindlu in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/236/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-17
Sample ID No	:	2017-03-17-02-02
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	18-03-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	116	148	14.8	85.2	60-95	75-100	85-100	95-100
4	1.18 mm	101	249	24.9	75.1	30-70	55-90	75-100	90-100
5	600 micron	175	424	42.4	57.6	15-34	35-59	60-79	80-100
6	300 micron	312	736	73.6	26.4	5-20	8-30	12-40	15-50
7	150 micron	210	946	94.6	5.4	0-10	0-10	0-10	0-15
8	Pan	54	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

Sadhu AE

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-17-02** **Date: 24-03-17**

Sample ID No : 2017-03-17-02-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	2.98	_
2	Specific Gravity	2.52	_
3	Material finer than 75 micron(%)	4.9	Not more than 15 percent

Note:
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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Jeetha
AE

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-03-01** **Date: 06-04-17**

Customer : Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.

Address : Vidyaranypura Sub Division, BBMP, Bangalore.

Project Name : Construction of 1st Floor at Anganavadi Centre, Thindlu in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/236/2016-17

Source of Sample : Sample supplied by the Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-17

Sample ID No : 2017-04-03-01-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	29/03/2017	05/04/2017	150.33 X 150.13 X 150.24	22569	8.190	385.9	17.1	16.7
2	PCC	M20	29/03/2017	05/04/2017	150.38 X 150.22 X 150.98	22590	8.211	370.5	16.4	
3	PCC	M20	29/03/2017	05/04/2017	150.34 X 150.22 X 150.21	22584	8.278	374.9	16.6	

Note:
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Prepared by
Harsitha

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-06-02** **Date: 12-04-17**

Customer : Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.

Address : Vidyaranypura Sub Division, BBMP, Bangalore.

Project Name : Construction of 1st Floor at Anganavadi Centre, Thindlu in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/236/2016-17

Source of Sample : Sample supplied by the Agency

Sample Condition : Satisfactory

Date of Receipt : 06-04-17

Sample ID No : 2017-04-06-02-01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	04/04/2017	11/04/2017	150.28 X 150.25 X 150.25	22580	8.267	370.3	16.4	16.7
2	Cement Concrete Pavement	M20	04/04/2017	11/04/2017	150.17 X 150.86 X 150.26	22655	8.298	380.6	16.8	
3	Cement Concrete Pavement	M20	04/04/2017	11/04/2017	150.22 X 150.16 X 150.11	22557	8.312	381.2	16.9	

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-17-02**	**Date: 23-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of 1st Floor at Anganavadi Centre, Thindlu in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.	
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.	
Customer's Reference	:	BBMP/EE/BTP/WO/236/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	17-03-17	
Sample ID No	:	2017-03-17-02-04	
Sample Type	:	Kamadenu Fe 500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	20-03-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Kamadenu	Fe500	8mm	0.392	529	644	18.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Kamadenu	Fe500	8mm	Satisfactory	Satisfactory

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

Prepared By:
Harshitha

AE

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-17-02** **Date: 23-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of 1st Floor at Anganavadi Centre, Thindlu in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/236/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-17
Sample ID No	:	2017-03-17-02-05
Sample Type	:	Kamadenu Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	20-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Kamadenu	Fe500	10mm	0.612	557	665	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Kamadenu	Fe500	10mm	Satisfactory	Satisfactory

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signature
Quality Manager

Prepared By:
Harshitha

Jodha
AE

End of Report

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-17-02** **Date: 23-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranypura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranypura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of 1st Floor at Anganavadi Centre, Thindlu in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri.Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/236/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-17
Sample ID No	:	2017-03-17-02-06
Sample Type	:	Kamadenu Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	20-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Kamadenu	Fe500	12mm	0.888	564	679	21.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Kamadenu	Fe500	12mm	Satisfactory	Satisfactory

Note:
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Prepared By:
Harshitha

Sudha
AE

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

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GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |